11

# BRUHAT BANGLORE MAHANAGARA PALIKE

## DASARAHALLI-ZONE

T.DASARAHALLI-SUB-DIVISION.

**Name of Work: Improvements to roads & drain at 1st & 2nd Cross (Left Side) 8th main road Bhuvaneshwari nagara in Ward No.14, Bagalagunte.**

**EST.Cost Rs.20.00 Lakhs**

# BRUHAT BANGALORE MAHANAGARA PALIKE

## DASARAHALLI ZONE

(10)

*Nan.. of Work :Improvements to roads & drain at 1st & 2nd Cross (Left Side) 8th main road Bhuvaneshwari nagara in Ward No.14, Bagalagunte.*

| | | | Est. Cost Rs | | | | 20.00 | Lakhs | |
|---|---|---|---|---|---|---|---|---|---|
| Sl. | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
| | KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in **Ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.138/I.19.1 PW, P & IWTD - SR 2014-15) | Cum | | | | | | | |
| | Deshtha of drain | | 1 | 423.00 | 0.60 | 0.30 | 76.14 | | |
| | | | | | | | **76.14** | 75.60 | **5756.00** |
| | Basic Rate | 70.00 | | | | | | | |
| | Add Area Weightage 8% | 5.60 | | | | | | | |
| | **Total** | **75.60** | | | | | | | |
| 2 | **Removing B.S.Slab** of drain and stacking etc., complete Page No. 25/ Item No. 5.32/ PWD SR 2014-15 | **Sqm** | | | | | | | |
| | | | 1 | 423.00 | 0.90 | | 380.70 | | |
| | | Consider 60% Qty | | | | | 228.42 | | |
| | Basic Rate | 54.00 | | | | | **228.42** | 58.32 | **13321.00** |
| | Add Area Weightage 8% | 4.32 | | | | | | | |
| | **Total** | **58.32** | | | | | | | |
| 3 | KSRB 4-1.3: Providing and laying in position **plain cement** concrete of mix M7.5 with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3) PWD - SR 2014-15) | Cum | | | | | | | |
| | | | 1 | 423.00 | 0.50 | 0.15 | 31.73 | | |
| | | | 4 | 423.00 | 0.20 | 0.15 | 50.76 | | |
| | Basic Rate | 4488.00 | | | | | **82.49** | 4847.04 | **399808.00** |
| | Add Area Weightage 8% | 359.04 | | | | | | | |
| | **Total** | **4847.04** | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4 | KSRB 4-1.6: Providing and laying in position plain cement concrete of mix **M1:2:4 with** cement @240 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.6) PW, P & IWTD - SR 2014-15) | Cum | | | | | | | 9 |
| | | | 1 | 423.00 | 0.50 | 0.075 | 15.86 | | |
| | | | 4 | 423.00 | 0.20 | 0.05 | 16.92 | | |
| | Basic Rate | 4933.00 | | | | | **32.78** | 5228.98 | **171419.00** |
| | Add Area Weightage 6% | 295.98 | | | | | | | |
| | **Total** | **5228.98** | | | | | | | |
| 5 | **Refixing stone slabs** of drains and pointing in CM 1:3 etc complete Page No. 25/ Item No.5.33/ PWD SR 2014-15 | **Sqm** | | | | | | | |
| | | **Qty Vide Iteam No 2** | | | | | **228.42** | 75.60 | **17269.00** |
| | Basic Rate | 70.00 | | | | | | | |
| | Add Area Weightage 8% | 5.60 | | | | | | | |
| | **Total** | **75.60** | | | | | | | |
| 6 | **Providing Granite slabs** selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick (P. 27 I. 5.31.1) Page No. 25/ Item No. 5.31.1/ PWD SR 2014-15 | **Sqm** | | | | | | | |
| | | | 1 | 423.00 | - | 0.90 | **380.70** | | |
| | | Deduct Availabe Qty Vide Iteam No 2 | | | | | **228.42** | | |
| | Basic Rate | 592.00 | | | | | 152.28 | 639.36 | **97362.00** |
| | Area Weightage 8% | 47.36 | | | | | | | |
| | **Total** | **639.36** | | | | | | | |
| 7 | KSRB 5-14 : Providing and constructing precast **concrete solid blocks** with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size **40x20x20** cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25/ Item No. 5.27/ PWD SR 2014-15** | **Sqm** | | | | | | | |
| | | | 2 | 423.00 | 0.40 | | 338.40 | | |
| | Basic Rate | 920.00 | | | | | **338.40** | 993.60 | **336234.00** |
| | Add Area Weightage 8% | 73.60 | | | | | | | |
| | **Total** | **993.60** | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8 | Supplying and fixing **precast** rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire c ges of machinery, machine cutting the vertical race to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials. | Sqm | | | | | | | |
| | | | 1 | 423.00 | 0.90 | | 380.70 | | |
| | **Data Rates Approved by CE DZ enclosed** | | | | | | **380.70** | 1600.00 | **609120.00** |
| 9 | **Cleaning the existing** black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous tratement including cost of all materials, labour, HOM of machineries complete as per specificationsEngineer-in-charge of the work ( PWDSR 2014-15, P.No.157, I No.21.2) . | Sqm | | | | | | | |
| | | | 1 | 200.00 | 5.00 | _ | **1000.00** | 3.02 | **3024.00** |
| | Basic Rate | 2.80 | | | | | | | |
| | Add Area Weightage 8% | 0.22 | | | | | | | |
| | **Total** | **3.02** | | | | | | | |
| | | | | | | | | | |
| 10 | Providing and applying **tack coat** on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (exlcuding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications Engineer-in-charge of the work ( PWDSR 2014-15, P.No.157, I No.21.7) | Sqm | | | | | | | |
| | | | 1 | 200.00 | 5.00 | _ | **1000.00** | 18.74 | **18738.00** |
| | Basic Rate | 17.35 | | | | | | | |
| | Add Area Weightage 8% | 1.39 | | | | | | | |
| | **Total** | **18.74** | | | | | | | |
| | | | | | | | | | |
| 11 | Providing and laying **semi dense bituminous concrete** 25 - 30mm compacted thickness with 5% bitumen with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled vibratory and ttandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respects with 80 / 100 grade bitumen with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. ( PWDSR 2014-15, P.No.159, I No. 21.20.2) | Cum | | | | | | | |
| | Selected Roadway | | 1 | 200.00 | 5.00 | 0.03 | **30.00** | 9851.76 | **295553.00** |
| | Basic Rate | 9122.00 | | | | | | | |
| | Add Area Weightage 8% | 729.76 | | | | | | | |
| | **Total** | **9851.76** | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 12 | Carraige of Mixed Materials above 15 Km beyound 10Km to 15 Kmslead at P-168, d 15x4.90=73.50 | Cum | | | | | **30.00** | 73.50 | **2205.00** |

JNC-014-15-000005

ನಂ. CE/DZ/RS/F3/14-15 ದಿನಾಂಕ : 29/10/2014

ರೂ. 20,000.00/- (ರೂ. ಇಪ್ಪತ್ತು ಸಾವಿರ ಮಾತ್ರ)

ಅಂದಾಜು ವೆಚ್ಚಕ್ಕೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಪಿ.ಪಿ.ಎಂ.ಪಿ
ಹಳ್ಳಿ ಪಲಯ, ಪ

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 13 | Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic ..e for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and | Cum | | | | | | | |
| | | | | Qty Vide Item No. 1 | | | 76.14 | 78.24 | 5957.00 |
| | Loading and Unloading Charges | 62.20 | | | | | | | |
| | Lead 4 KMs 2x1.28x4 | 10.24 | | | | | | | |
| | | **72.44** | | | | | | | |
| | Area Weightage @ 8% | 5.80 | | | | | | | |
| | **Total** | **78.24** | | | | | | | |
| 14 | Quality control Test Charges 1% | | | | | | | | 20000.00 |
| 15 | Miscellaneous and UnforessenCharges | | | | | | | | 4234.00 |
| | | | | | | | | Total | 2000000.00 |

**(Rupees. Twenty Lakhs Only)**

**CERTIFICATE:-**

1 The Work spot has been inspected and the work is found to be necessary

2 The Estimate is prepared as per the PW,P & IWTD -SR-2014-15

3 The Provision made in estimate are adequate and essential.

4 This area comes under BBMP limits.

**Assistant Engineer**
**Ward-14**

**Assistant Executive Engineer**
**T. Dasarahalli Sub-Division**
**B.B.M.P**

**Executive Engineer**
**Dasarahalli Division**
**B.B.M.P. Bangalore.**

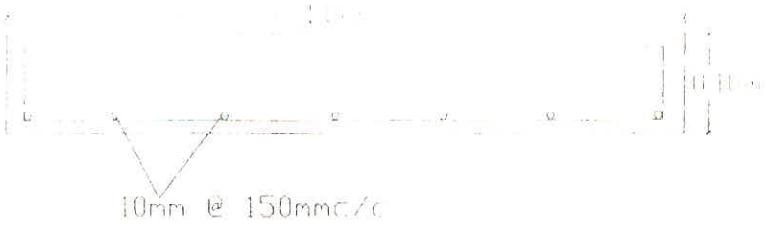
JNC-C14-15-CCCC5

ನಂ. C/PZ/A/73/14-15 ದಿನಾಂಕ : 29.10.2014
ರೂ. 20.00 Lakhs (Rupees twenty Lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
29/10/14
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಪಾ.ಪ.ಯೋ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. ಚೀ/ದಾಸ/146/14-15 ದಿನಾಂಕ : 29/10/2014
ರೂ. 20.00 Lakhs (Rupees twenty Lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
29/10

(5)

Rate analysis for 1.00sqm of R.C.C Precast of 0.10m thick by using P.V.C & M.S. (SR 2012-13)




1).Steel Qty= 1x7x1.10=7.70m
= 1x7x0.90=6.30m
Total=14.00m
=14.00x0.62kgs/m =8.68kgs

Cost of Steel including Fabrications
(P-19/I-4.46,SR 2012-13)=(Rs.71.89/Kgs)=8.68x71.89=Rs.624.00

2).Cost of Concrete Qty= 1.00x1.00x0.10=0.10Cum
(P-13/I-4.11,SR 2012-13)=(Rs.5142.06/Cum)=0.10x5142.06=Rs514.20

3).Cost of Centring work Qty=Slab bottom= 1.10x1.10=1.21Sqm
Alround Slab= 4.00x0.15=0.60Sqm

Total=1.81Sqm

(P-16/I-4.28,SR 2012-13 =1.81x254.40=Rs.460.46

Total=Rs.1598.66

The Cost of precast Slab is Say Rs.1600/Sqm.

AE
Wno.14

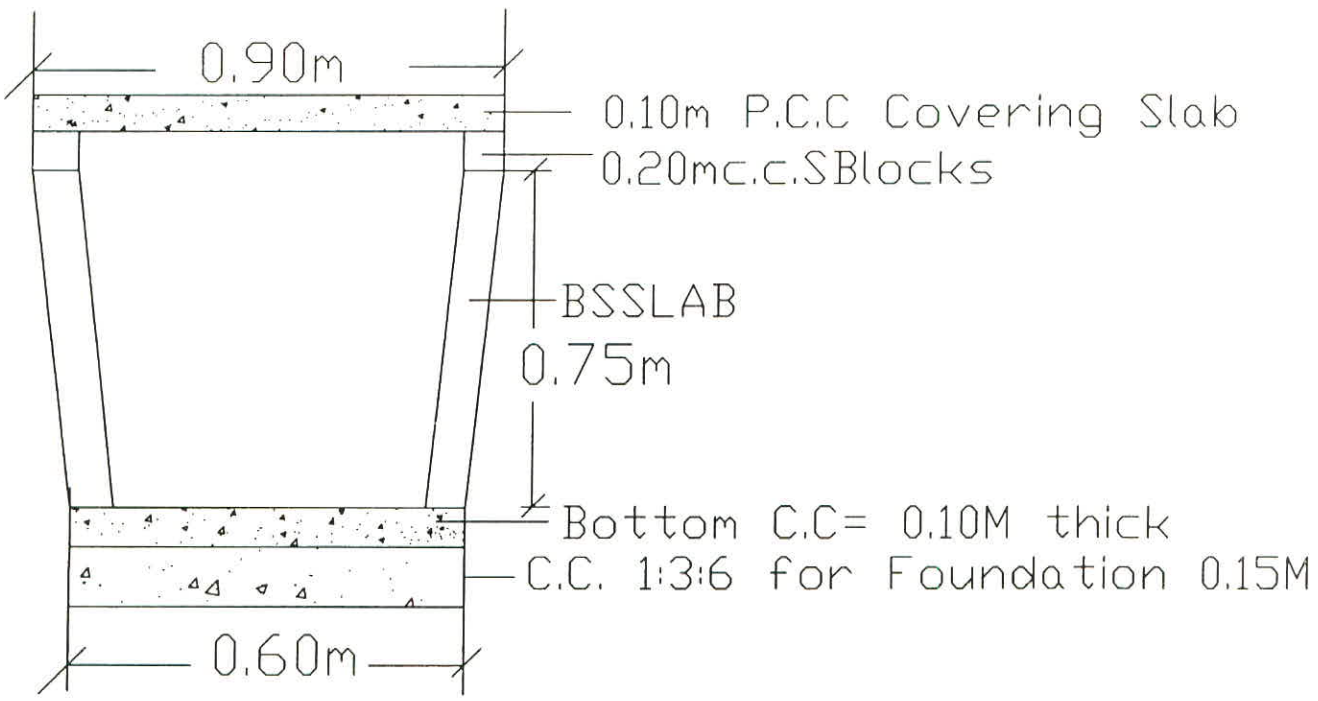
AE
Wno.15

Assist. Executive Engineer
T.Dasarahalli Sub Division
BBMP Bangalore.

Executive Engineer
Dasarahalli Division
BBMP Bangalore.

Approved

· Name of work:-



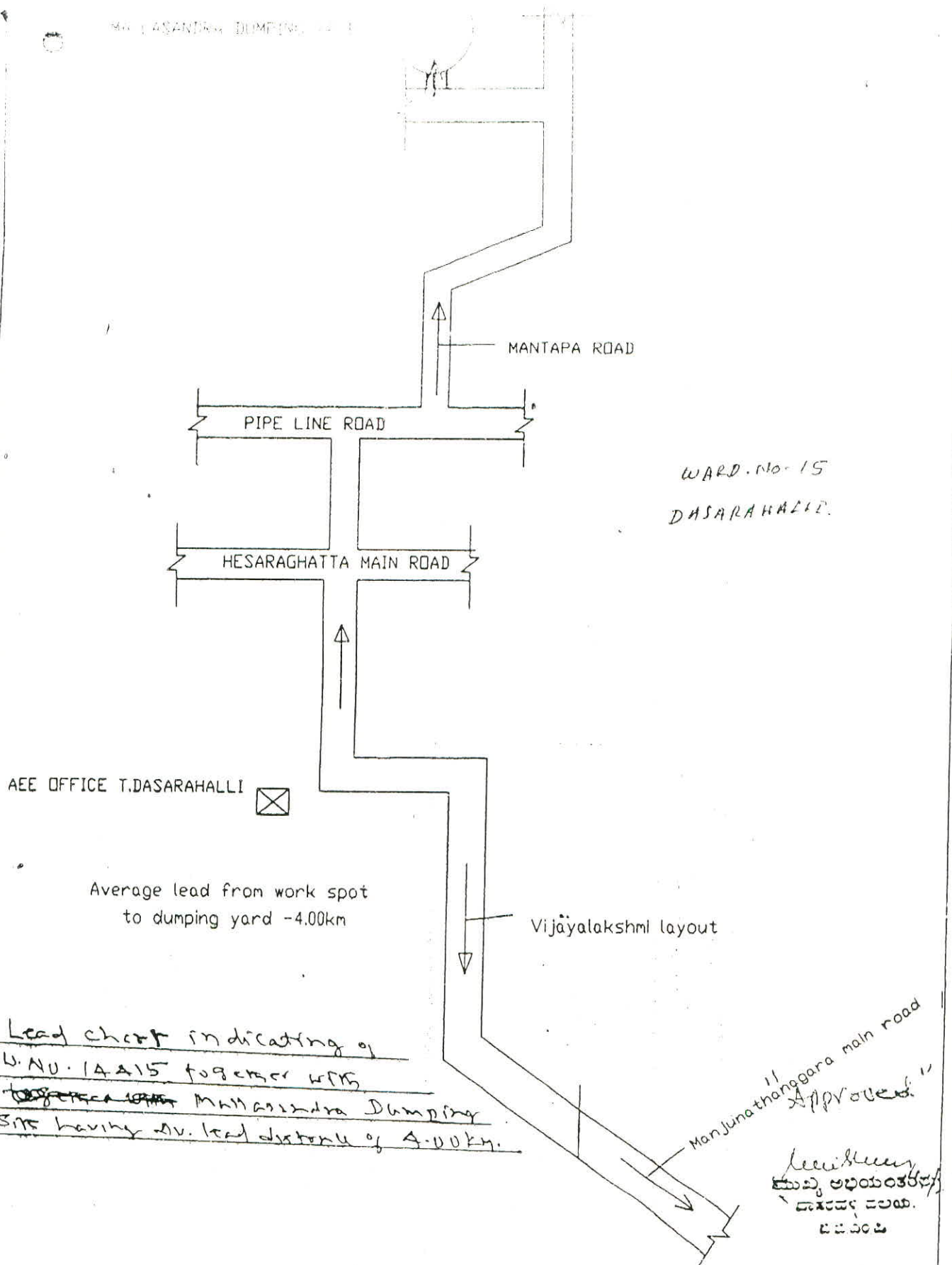

C/S OF B.S.SLAB DRAIN

Assistant Engineer
Ward No.15

Assistant Executive Engineer
T.Dasarahalli Sub Division
BBMP Bangalore

Executive Engineer
Dasarahalli Division
BBMP Bangalore

(1)




WARD. No- 15

DASARAHALLI.

Lead chart indicating of
W.NO. 14 & 15 together with
~~[illegible]~~ Mallasandra Dumping
Site having Av. lead distance of 4.00 Km.

"Approved"

Assist. Engineer
Ward no.14 & 15.

Assist. Executive Engineer
T.Dasarahalli Sub Division
BBMP

Executive Engineer
Dasarahalli Divison-1
BBMP